

SOIL EROSION IDENTIFICATION BY TM-LANDSAT AND HRV-SPOT IMAGES

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ABSTRACT

The present work was carried out in the Casa Branca region (Eastern of São Paulo State). The objective was to develop a methodology using orbital images (TM-LANDSAT and SPOT-Panchromatic) to identify soil erosion. Digital TM-LANDSAT (bands 3, 5 and 7) and HRV-SPOT panchromatic images were merged. TM bands were transformed by the IHS enhancement and the resultant images (bands R, G and B) were obtained after the displacement of the component I by the panchromatic SPOT image. The performance of the R, G and B bands, for the detection soil erosion features, was evaluated with serial photographs.